

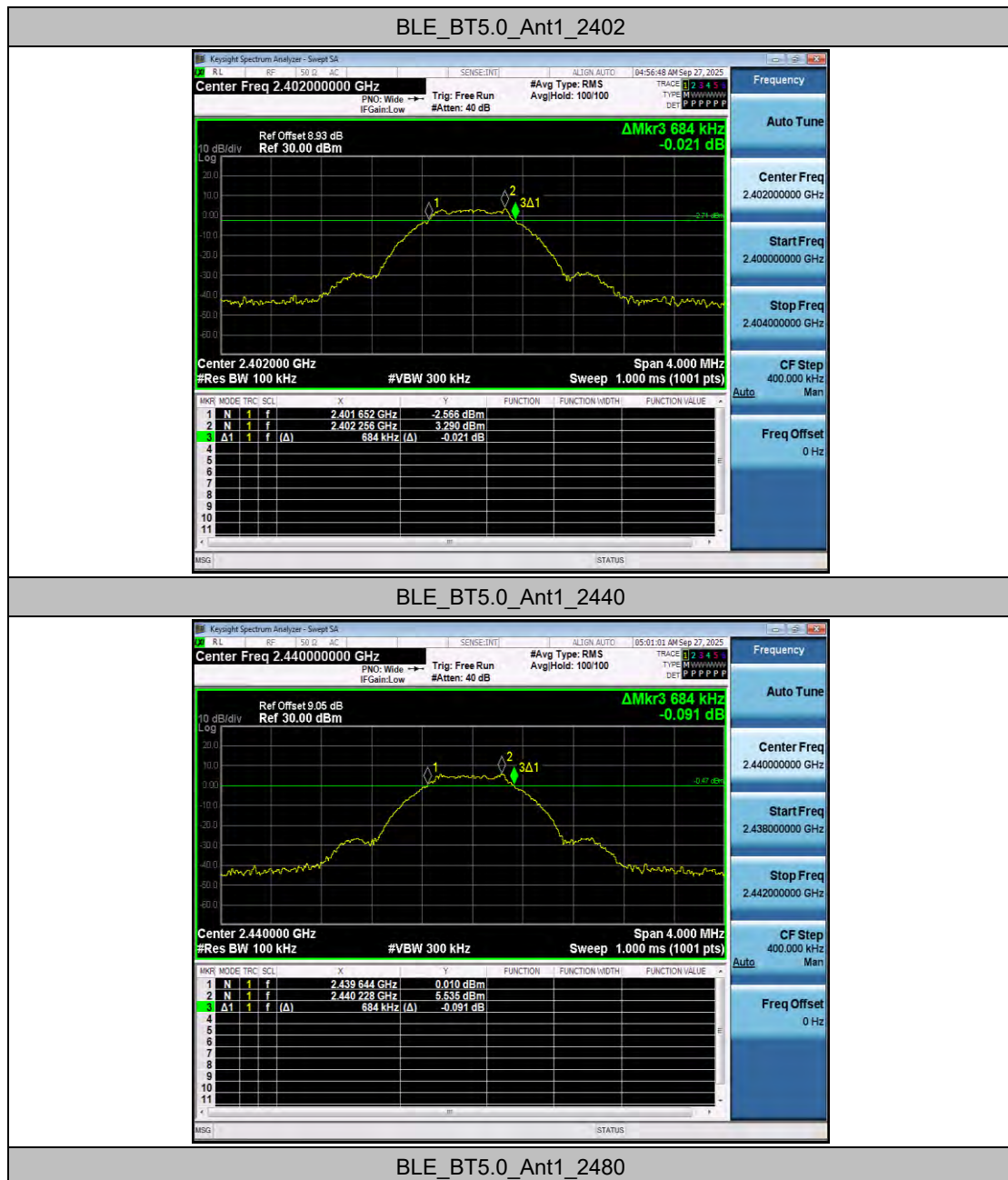
Case No. : <u>GTS20250901012-5-02</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.9.27</u>	Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	0.684	2401.652	2402.336	0.5	PASS
		2440	0.684	2439.644	2440.328	0.5	PASS
		2480	0.672	2479.648	2480.320	0.5	PASS

Test Graphs

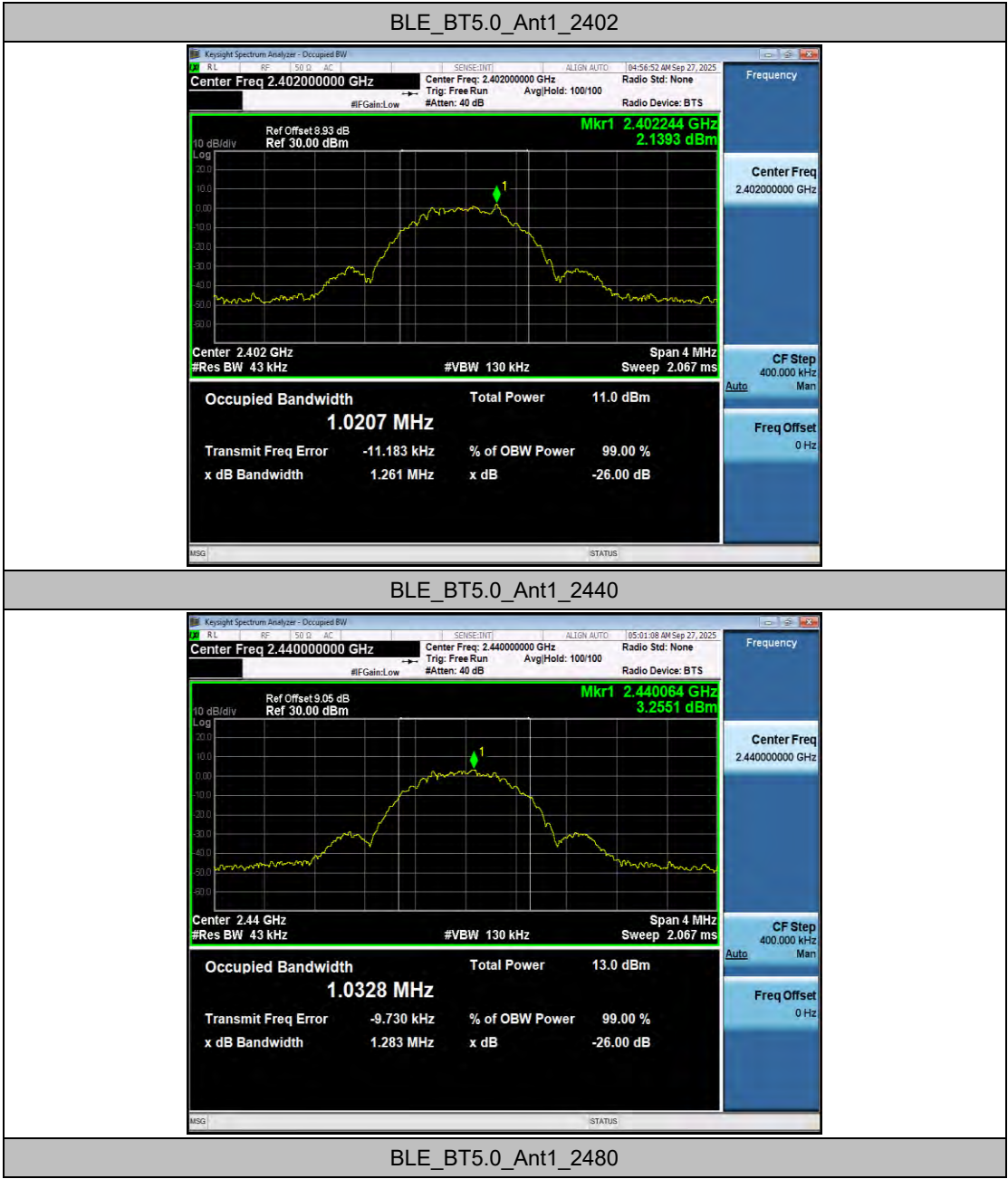


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	1.0207	2401.4785	2402.4992	---	---
		2440	1.0328	2439.4739	2440.5067	---	---
		2480	1.0300	2479.4748	2480.5048	---	---

Test Graphs





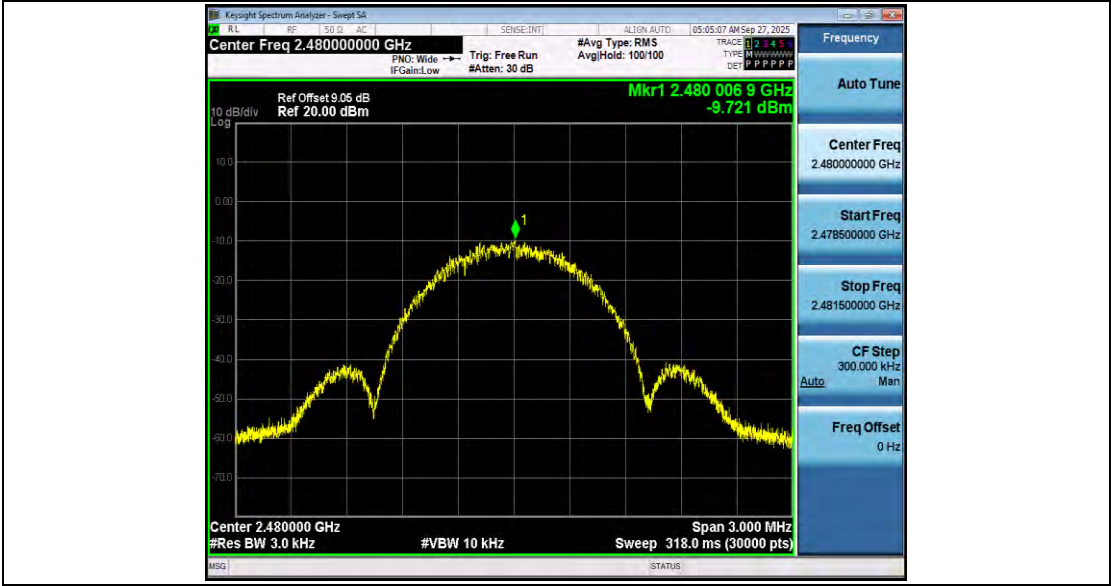
Appendix B.3: Maximum conducted output power

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	4.26	≤30	PASS
		2440	6.54	≤30	PASS
		2480	6.33	≤30	PASS

Appendix B.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT5.0	Ant1	2402	-11.93	≤8.00	PASS
		2440	-9.68	≤8.00	PASS
		2480	-9.72	≤8.00	PASS

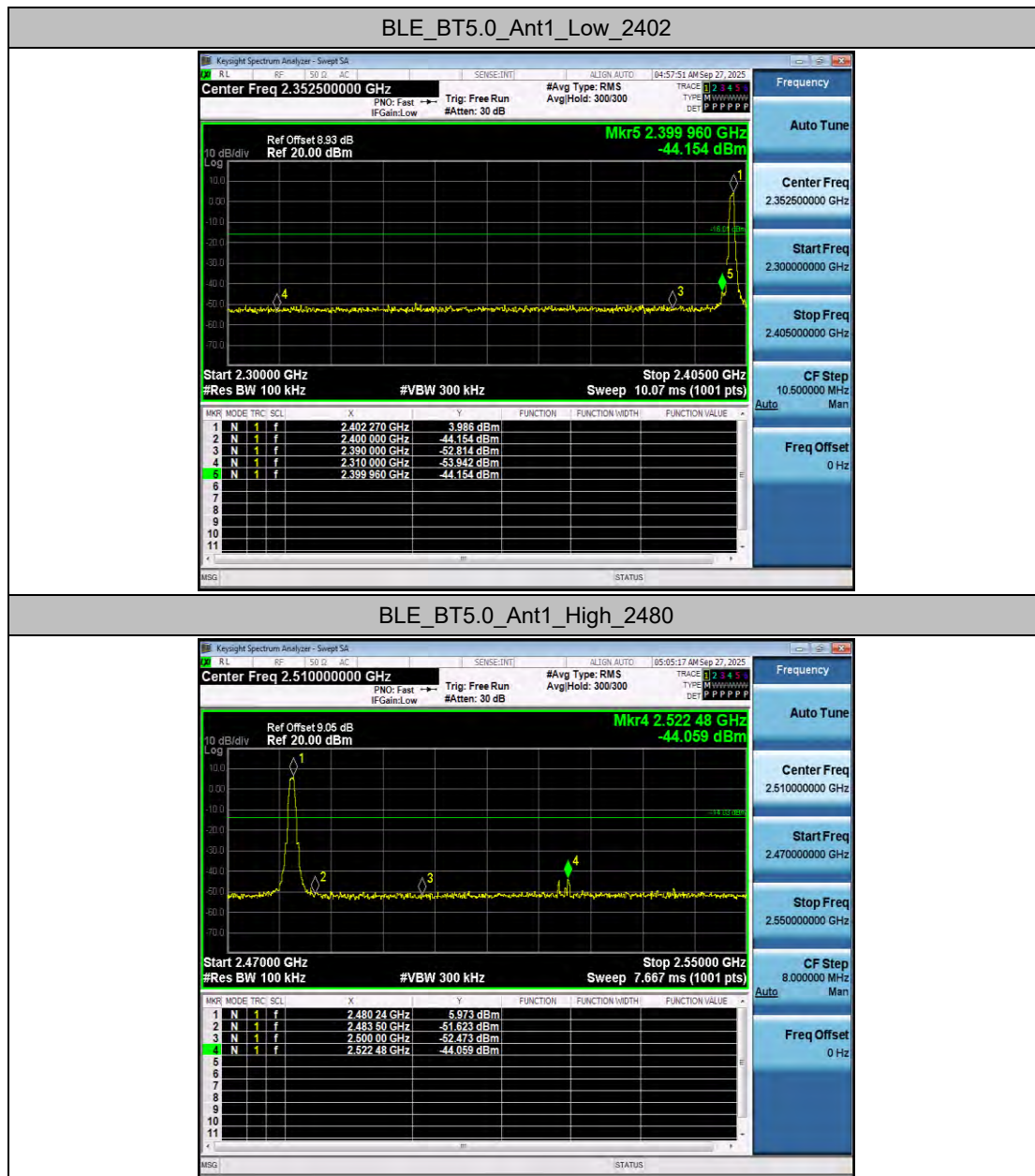


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	Low	2402	3.99	-44.15	≤-16.01	PASS
		High	2480	5.97	-44.06	≤-14.03	PASS

Test Graphs

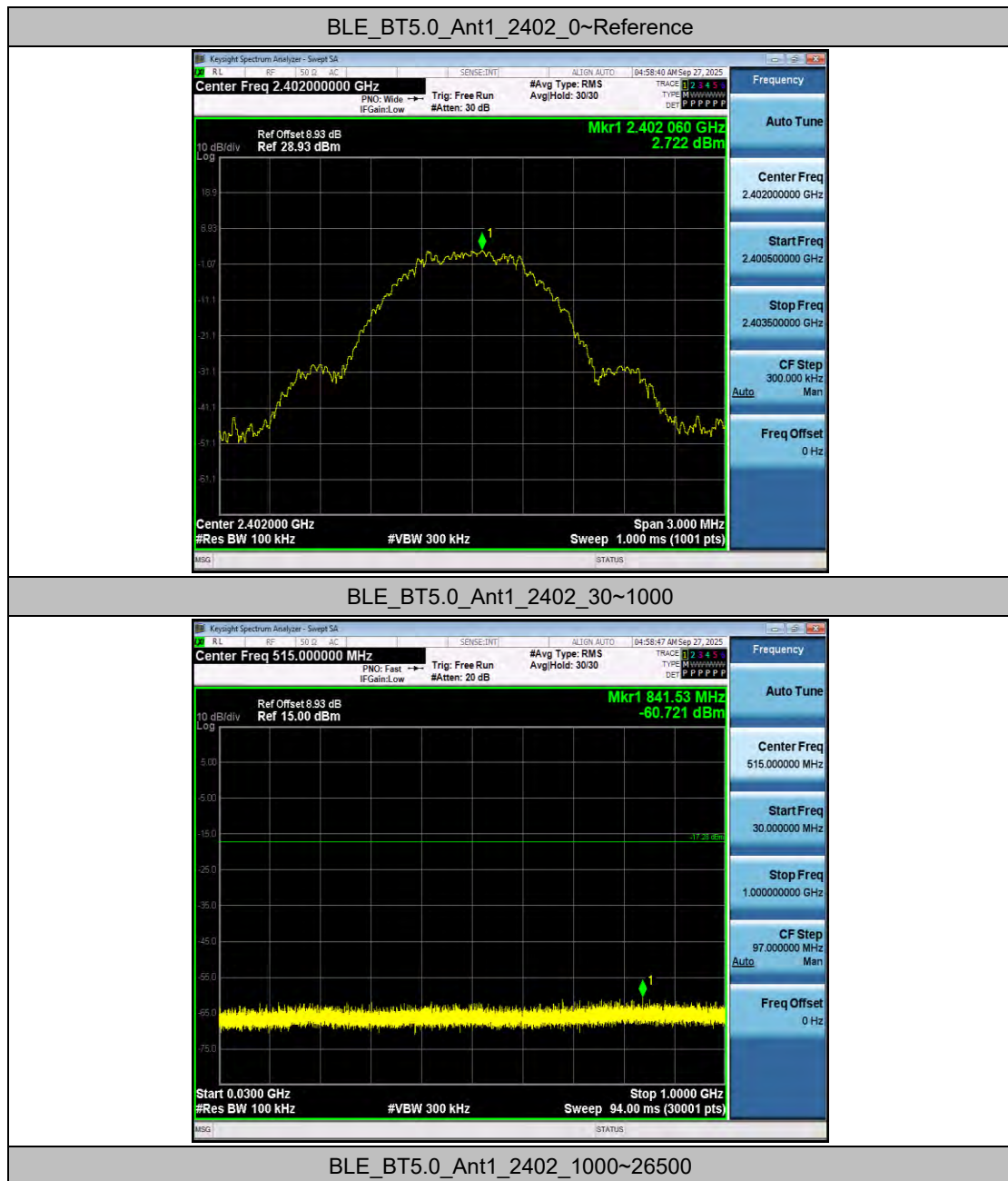


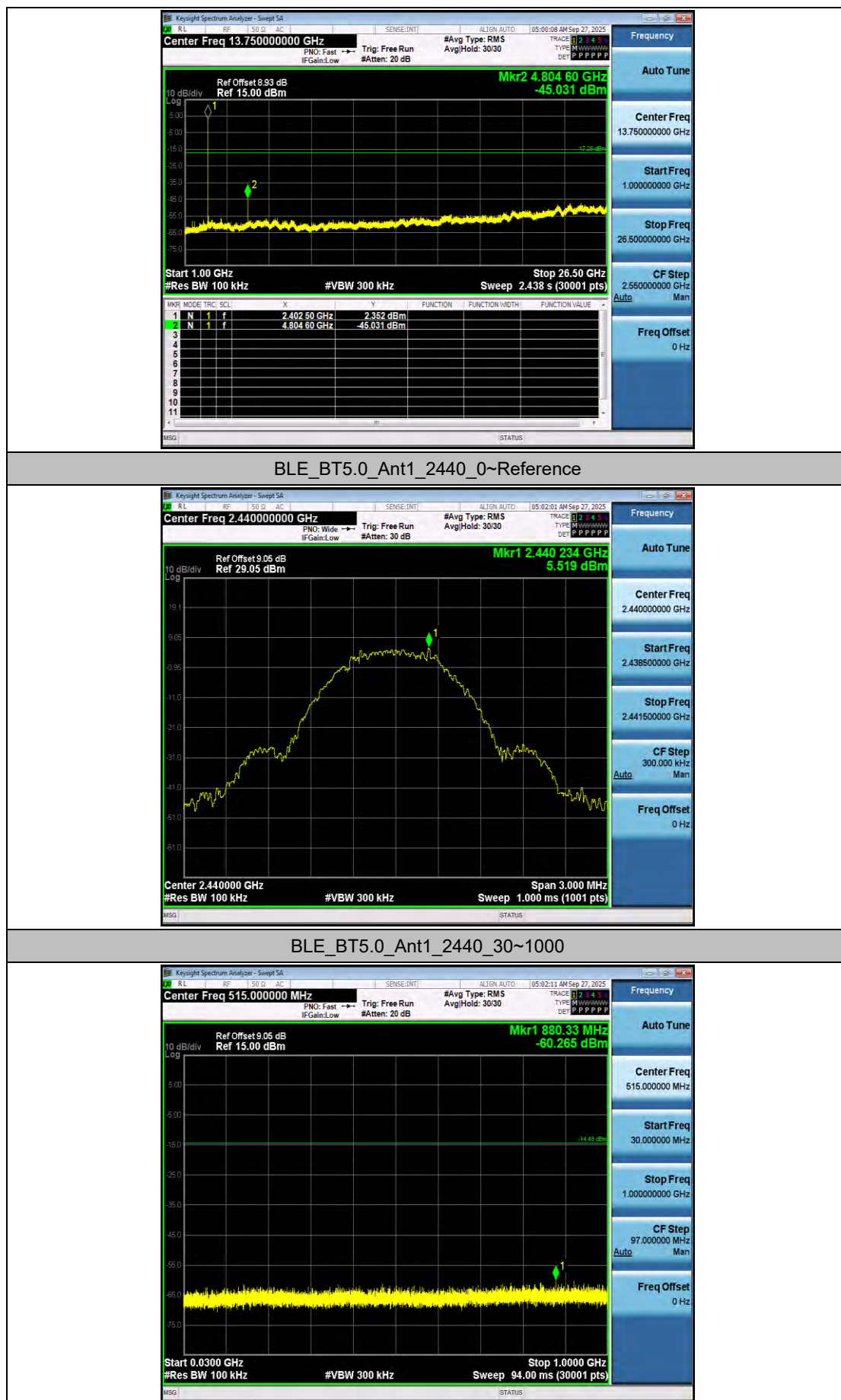
Appendix B.6: Conducted Spurious Emission

Test Result

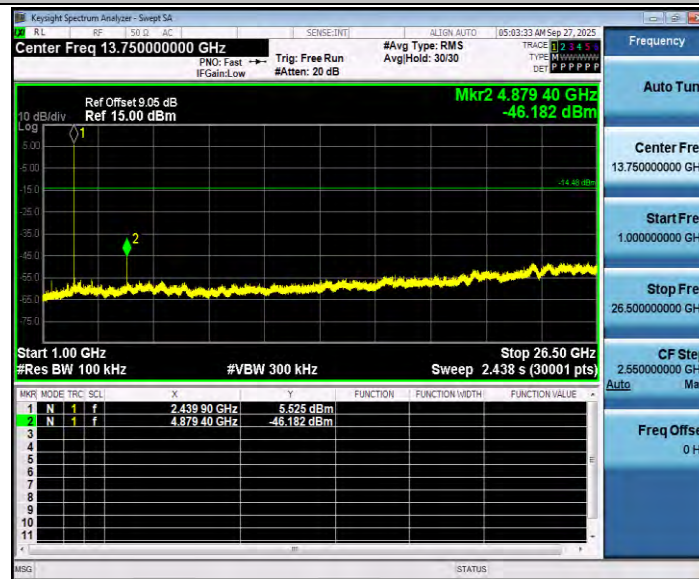
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	Reference	2.72	2.72	---	PASS
			30~1000	2.72	-60.72	≤-17.28	PASS
			1000~26500	2.72	-45.03	≤-17.28	PASS
		2440	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-60.27	≤-14.48	PASS
			1000~26500	5.52	-46.18	≤-14.48	PASS
		2480	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-59.86	≤-14.92	PASS
			1000~26500	5.08	-47.31	≤-14.92	PASS

Test Graphs





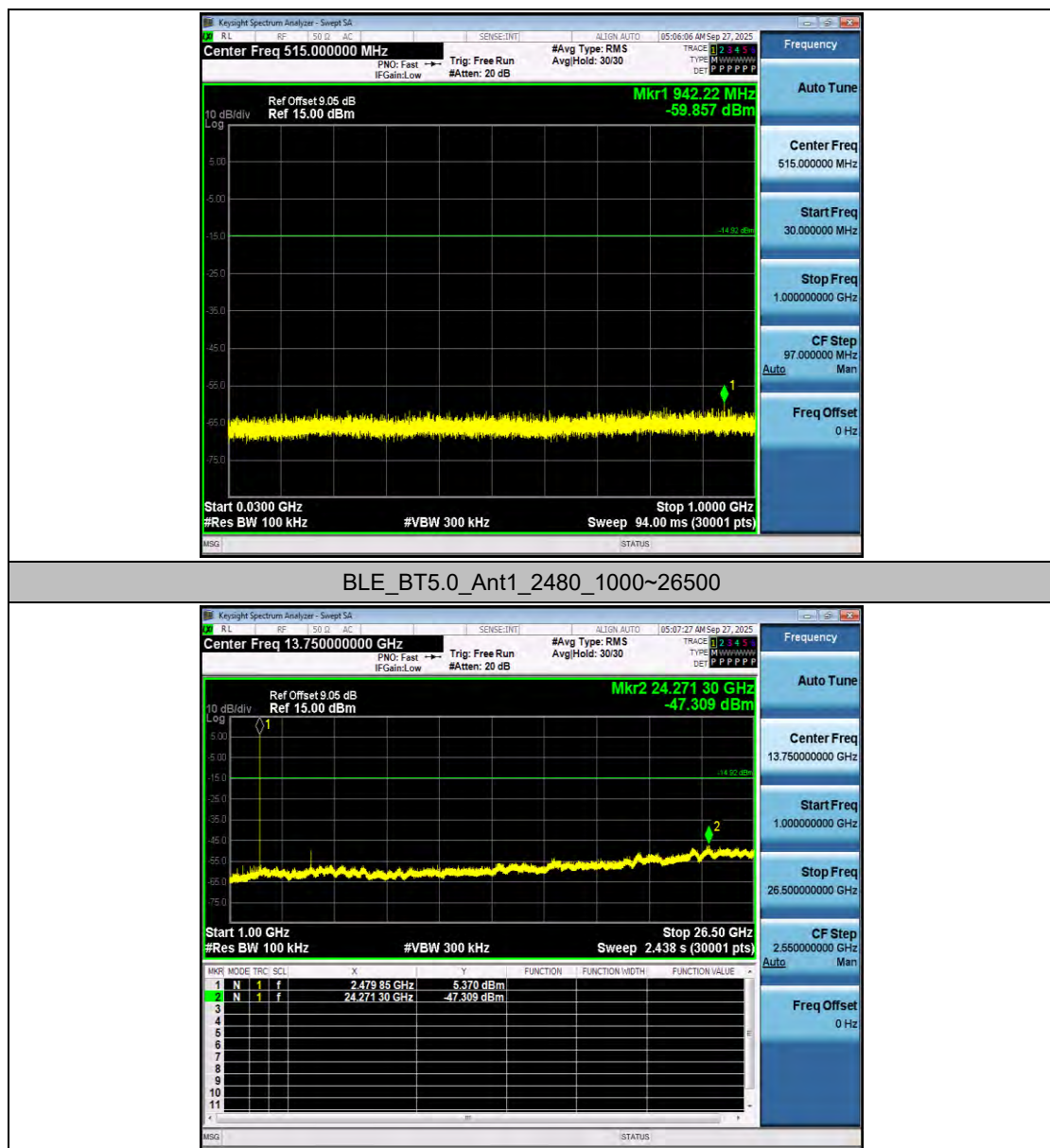
BLE_BT5.0_Ant1_2440_1000~26500



BLE_BT5.0_Ant1_2480_0~Reference



BLE_BT5.0_Ant1_2480_30~1000

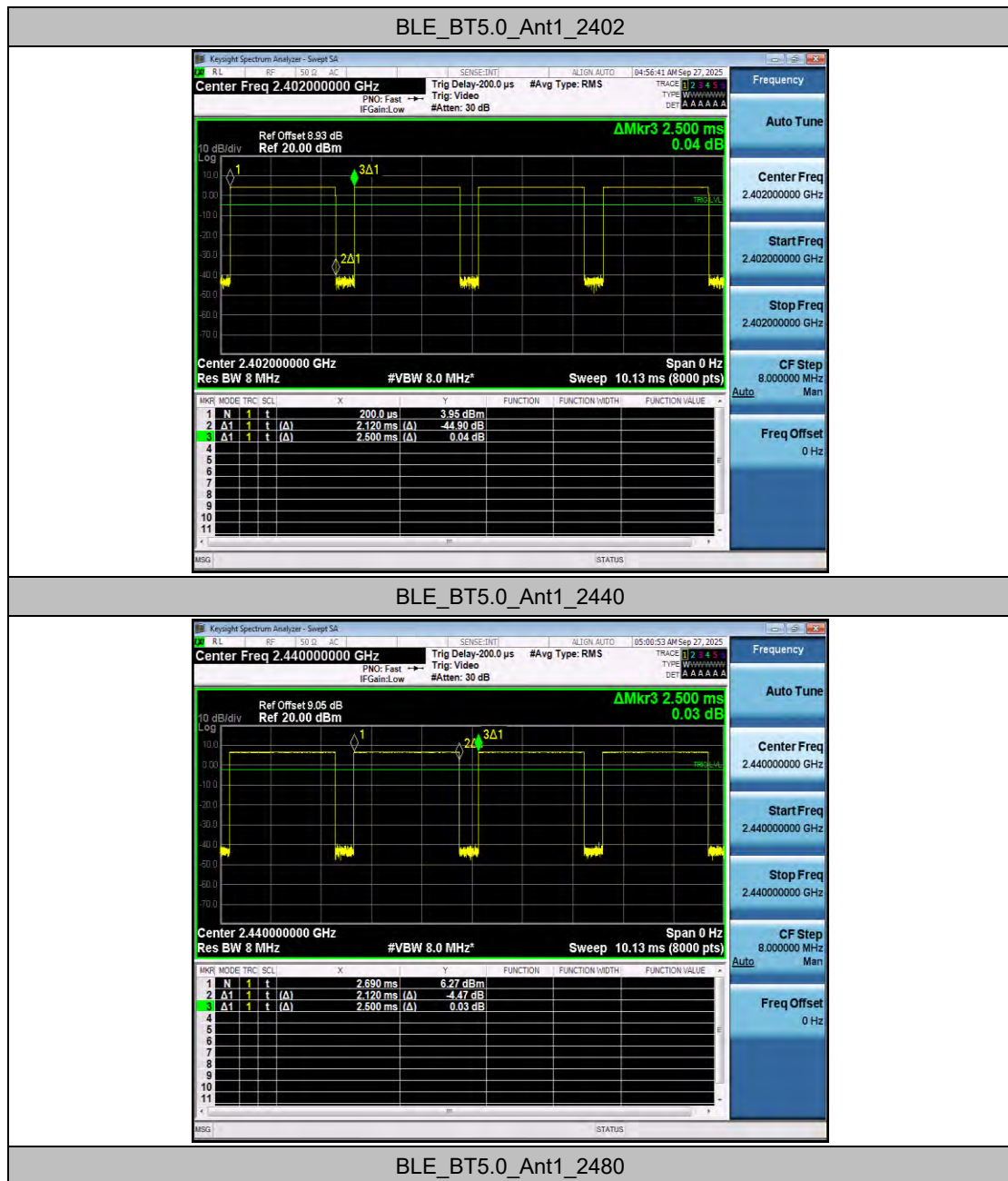


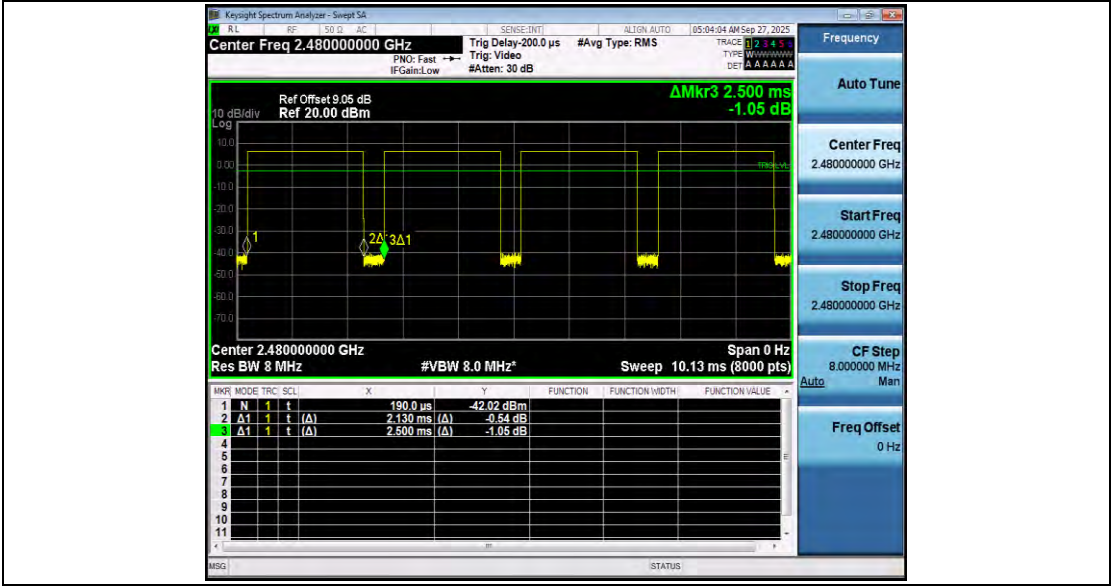
Appendix B.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE_BT5.0	Ant1	2402	2.12	2.50	0.8480	84.80	0.72	0.47
		2440	2.12	2.50	0.8480	84.80	0.72	0.47
		2480	2.13	2.50	0.8520	85.20	0.70	0.47

Test Graphs





Appendix B.8: Emissions in Restricted Bands

Test Result

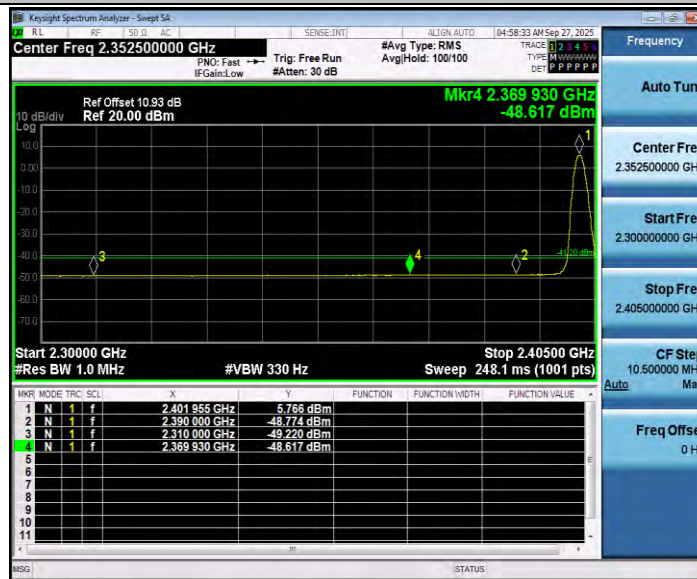
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_BT5.0	Ant1	Low	2402	AV	2310.000	-49.22	≤-41.20	45.98	≤54	PASS
				AV	2369.930	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2390.000	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2310.000	-42.09	≤-21.20	53.11	≤74	PASS
				Peak	2363.420	-38.79	≤-21.20	56.41	≤74	PASS
				Peak	2390.000	-40.45	≤-21.20	54.75	≤74	PASS
		High	2480	AV	2483.500	-46.01	≤-41.20	49.19	≤54	PASS
				AV	2483.520	-46.01	≤-41.20	49.19	≤54	PASS
				AV	2500.000	-48.31	≤-41.20	46.89	≤54	PASS
				Peak	2483.500	-40.93	≤-21.20	54.27	≤74	PASS
				Peak	2486.560	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-42.31	≤-21.20	52.89	≤74	PASS

Note:

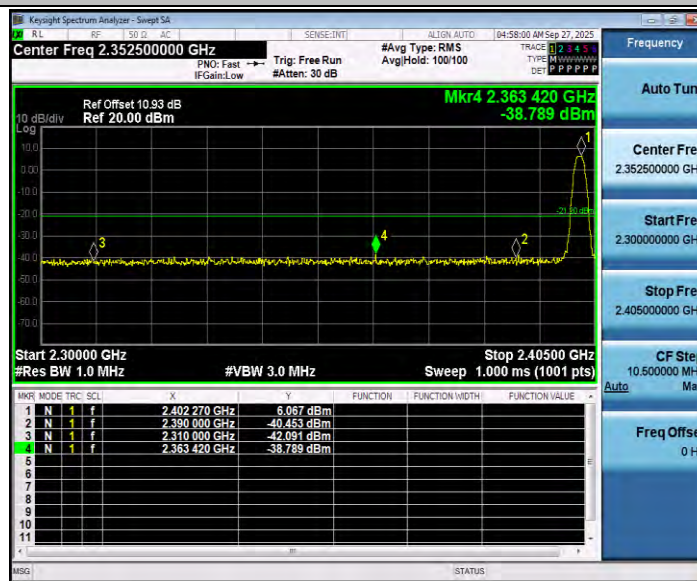
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

BLE_BT5.0_Ant1_Low_2402_AV



BLE_BT5.0_Ant1_Low_2402_Peak



BLE_BT5.0_Ant1_High_2480_AV

